

82442

S/149/60/000/004/005/009

Operating Conditions of a Heater on a Zone Recrystallization Furnace

magnitude of the temperature gradient, which must be sufficiently high to prevent any considerable changes in the length of the molten zone. If this length is not constant, the distribution of impurities deviates from the regular values. Values of the individual components of the total energy of the heater are given. The established conditions ensure the uniform and regular distribution of impurities. The theoretical (554 kcal/hr) and practical (562 kcal/hr on the average) values of the heater power are in a satisfactory agreement and prove the correctness of the established data. (Editor's note: Inscriptions under Figs. 6 and 7 do not correspond to the text; Al and Sb are interchanged). There are 4 diagrams, 5 graphs and 5 references: 4 Soviet and 1 English.

ASSOCIATION: Krasnoyarskiy institut tsvetnykh metallov (Krasnoyarsk Institute of Non-Ferrous Metals) Problemmaya laboratoriya chistikh metallov, metallicheskikh soyedineniy i poluprovodnikovykh materialov (The Experimental Laboratory of Pure Metals, Metallic Compounds and Semiconductor Materials)

SUBMITTED: July 9, 1959

Card 3/3

S/149/60/000/006/012/C18  
A006/A001

AUTHORS: Krapukhin, V. V., Chernyayev, V. N.

TITLE: On Deep Purification of Silicon Tetrachloride From Metal Impurities  
by the Fractionation Method

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsver'naya metallurgiya, 1960,  
No. 6, pp. 124-131

TEXT: Among the methods of purifying metals and salts, distillation and fractionation processes came into extended use. Fractionation is based on the value of the coefficient of separation ( $\alpha_s$ ) at a given pressure and temperature. Data on the vapor-liquid equilibrium, which is one of the basic scientific trends in this field, are available only for medium concentrations of one component in the other and not for very low concentrations. Therefore the fractionation process of deep purification for a concentration range of  $1 \cdot 10^{-2}$  to  $1 \cdot 10^{-3}$ % has an empirical nature, and previous attempts of calculating the process were based on laws which are justified for ideal solutions. The authors studied conditions of deep separation of impurities from the basic component, and the first place attempted to reveal the value of the actual coefficient of separation ( $\alpha_s$ ) in the zone adjacent to a pure component, using the equation:

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S/149/60/000/006/012/018  
A/C6/A001

On Deep Purification of Silicon Tetrachloride From Metal Impurities by the Fractionation Method

$$\alpha_s = \frac{P_1^o}{P_2^o} \gamma_1$$

where  $P_1^o$  and  $P_2^o$  are the pressures of saturated vapors of pure components at a given temperature of the mixture; the indices 1 and 2 are always pertaining to the basic component and the admixture, respectively;  $\gamma_1$  and  $\gamma_2$  are the coefficients of activity of the components in the solution which vary with changes in the composition of the solution. A combined analysis is made of the Gibbs-Duhem equation and the relative volatility, and it is assumed that impurities might exist for which the coefficient of separation varies with the transition from their medium concentration in the basic component to a range of a very low content. A more precise definition of the  $\alpha_s$  value is made by 2 series of tests. The first series is made on an Aldershaw (Ol'dershaw) type column of 490 mm height and 32 mm in diameter with 15 baffles with up to 42 apertures of 0.8 - 0.9 mm in diameter. The second series is performed on a quartz column with perforated plates and 10 baffles (Fig. 2). This device can operate at higher temperatures and is less

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S/149/60/COS/206/112/016  
A006/A001

On Deep Purification of Silicon Tetrachloride From Metal Impurities by the Fractionation Method

Selected by corrosion. The spraying rate is specially regulated to remain constant. The apparatus digestion was made on the  $\text{SiCl}_4 - \text{PCl}_3$  and the  $\text{SiCl}_4 - \text{FeCl}_3$  systems. An amount of 1.5 kg initial mixture at a given concentration was placed in a vat. After having attained the normal conditions, the column was brought to a stationary state within 2 hours. Then at a very low rate the first samples of the distillate were taken from the vat every 2 - 2 1/2 hours. Simultaneously samples were taken from the vat in an amount of 1.5 - 2% of the liquid volume in the vat. Then the spraying rates of the upper and lower sections of the apparatus were measured. The composition of the distillate and of the liquid in the vat were used to calculate the mean value of  $k_s$  for a concentration range of  $X_{\text{vat}}$  and  $X_{\text{dist}}$  according to the equation

$$k_s = 10^{\frac{\lg X_{\text{vat}} - \lg X_{\text{dist}}}{n}}$$

where  $X_{\text{vat}}$  and  $X_{\text{dist}}$  be the compositions of the distillate and the liquid in the vat;  $n$  be the number of the theoretical plates in the apparatus. The chemical work was made by T. P. Kiseleva under the supervision of B. M. Lipshits. The

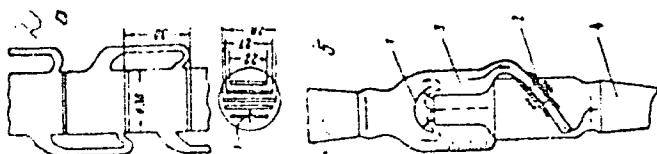
S/149/60/000/006/012/018  
A006/A001

On Deep Purification of Silicon Tetrachloride From Metal Impurities by the Fractional Method

Experiments performed in the low concentration range of the second component show that the coefficient of separation in the case of the  $\text{SiCl}_4$  -  $\text{PCl}_3$  system is constant, and variable in the case of the  $\text{SiCl}_4$  -  $\text{FeCl}_3$  system. In the concentration range of  $\text{PCl}_3$  in  $\text{SiCl}_4$ , other impurities do not considerably affect the changes in the coefficient of separation determined for a binary mixture. The assumption is confirmed that the prevalent role in the behavior of impurities in deep purification is exerted by the interaction of the impurities with the basic component. In this connection the study of binary systems at a low concentration of one of the components, acquires a special significance when solving the problem of deep purification of a substance.

Figure 2:

Figure 2.  
Fractionation column with perforated baffles (a) and phlegm separator (b); 1 - fungiform part; 2 - chlorovinyl hose with clamp; 3 - socket for measuring the volume; 4 - section.



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S/149/60/000/006/012/018  
A006/A00.

On Deep Purification of Silicon Tetrachloride From Metal Impurities by the Fractionation Method

There are 4 figures, 2 tables and 11 references: 8 Soviet and 3 English.

ASSOCIATION: Krasnoyarskiy institut tsvetnykh metallov (Krasnoyarsk Institute of Non-Ferrous Metals) Problemya laboratoriya chistikh metallov, metallicheskikh soyedineniy i poluprovodnikovykh materialov (Pilot Laboratory of Pure Metals, Metallic Compounds and Semiconductor Materials)

SUBMITTED: July 20, 1959

Card 5/5

KRAPUKHIN, V.V.; POVEDSKAYA, L.G.; YERSHOVA, S.A.

Deep purification of zinc by distillation. TSvet. met. 34  
no.6:23-27 Je '61. (MIRA 14:6)

1. Institut tsvetnykh metallov imeni M. I. Kalinina.  
(Zinc--Metallurgy)

CHERNYAYEV, V.N.; KRAPUKHIN, V.V.; MARTYNOV, Yu.M.

Deep purification of silicon tetrachloride by rectification.  
TSvt. met. 34 no.8:56-59 Ag '61. (MIRA 14:9)

1. Yuzhno-Ural'skiy zavod tyazhelogo mashinostroyeniya.  
(Silicon--Metallurgy)

MURACH, N.N.; KRAPUKHIN, V.V.; KULIKOV, F.S.; CHERNYAYEV, V.N.; NEKHAMKIN, L.G.

Certain regularities in the extraction of germanium chloride. Zhur.  
prikl.khim. 36 no.10;2188-2194 O '61. (MIRA 14:11)  
(Germanium chloride) (Extraction (Chemistry))

ZELIKMAN, A.N., prof, doktor tekhn. nauk, red.; KOMISSAROVA, L.N.,  
dots., kand. khim.nauk, red.; KRAPUKHIN, V.V., dots., kand.  
tekhn. nauk, red.; SEVYUKOV, N.N., prof., doktor tekhn.  
nauk, red.; KAMAYEVA, O.M., red. izd-va; MIKHAYLOVA, V.,  
tekhn. red.

[Separation of rare metals having similar properties] Razdele-  
nie blizkikh po svoistvam redkikh metallov. Moskva, Metallurg-  
izdat, 1962. 264 p. (MIRA 15:8)  
(Nonferrous metals--Metallurgy)

ORLOVTSEV, Yu.V.; KRAPUKHIN, V.V.; KRESTOVNIKOV, A.N.

Investigating the gas content of certain nonferrous metals by  
the method of mass spectrometry. Izv.vys.ucheb.zav.; tsvet.met.  
5 no.1:132-138 '62. (MIRA 15:2)

l. Krasnoyarskiy institut tsvetnykh metallov, kafedra  
fizicheskoy khimii.  
(Gases in metals) (Mass spectrometry)

S/076/62/036/007/006/010  
B101/B138

AUTHORS: Chernyayev, V. N., Krapukhin, V. V., and Stolyarov, Yu. I.

TITLE: Phase equilibria in the system  $\text{SiCl}_4$  -  $\text{SbCl}_3$  at low antimony trichloride concentrations

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 7, 1962, 1521 - 1524

TEXT: The behavior of  $\text{SbCl}_3$  was studied as impurity in  $\text{SiCl}_4$ . The solubility of  $\text{SbCl}_3$  (at concentrations of 0.24 - 1.87 mole%) in  $\text{SiCl}_4$  was determined at 0 - 118°C, and the phase equilibrium according to V. A. Kirayev, Yu. N. Sheynker, Ye. M. Peresleni (Zh. fiz. khimii, 352, 1952). High-purity substances were used.  $\text{SiCl}_4$  contained the following impurities (% by weight): Fe, Al, Ca, Mn, Mg<sup>4</sup>, and Cu < 1.10<sup>-7</sup>; P, Sn, and

V < 1.10<sup>-6</sup>; B < 1.10<sup>-5</sup>;  $\text{SbCl}_3$  contained less than 1.10<sup>-4</sup>% by weight of Fe.

Results: (1) The heat of solution  $\Delta H_{\text{sol}}$  of  $\text{SbCl}_3$  in  $\text{SiCl}_4$  was 8.4 kcal/mole·deg. (2) The activity coefficient  $f_2$  of  $\text{SbCl}_3$  obeys the equation  $\log f_2 = -(\Delta H_{\text{sol}} - \Delta H^\circ)/RT + (\Delta H_{\text{sol}} - \Delta H^\circ)/RT^\circ$ , where  $\Delta H^\circ$  is the

Card 1/2

Phase equilibria in ...

S/076/62/036/007/006/010  
B101/B138

Heat of fusion of  $SbCl_3$ , and  $T^0$  ( $^{\circ}K$ ) its melting point. (3) The experimental separation coefficient  $\alpha$  agreed well with the value calculated for a regular solution (13.9) whereas calculation according to Raoult's law gave a value 40 times higher. Irrespective of the high dipole moment of  $SbCl_3$ , the system  $SiCl_4 - SbCl_3$  obeys the law for regular solutions at low  $SbCl_3$  concentrations. There are 2 figures and 3 tables.

ASSOCIATION: Institut tsvetnykh metallov im. M. I. Kalinina (Institute of Nonferrous Metals imeni M. I. Kalinin)

SUBMITTED: January 20, 1961

Card 2/2

CHERNIYAYEV, V.N.; KRAPUKHIN, V.V.; CHERNUKHA, G.D.

Extraction purification of silicon tetrachloride. Zhur.prikl.  
khim. 35 no.10:2161-2165 O '62. (MIRA 15:12)  
(Silicon chloride) (Extraction (Chemistry))

KITKALINNYY, Vsevolod Ivanovich; KETAFUKHIN, Vsevolod Valer'yanovich;  
VASIL'CHENKO, Aleksandr Ivanovich; GRANOVSKIY, Boris L'vovich;  
GLINKOV, M.A., prof., doktor tekhn. nauk, red.

[Metallurgical furnaces; an atlas] Metallurgicheskie pechi;  
atlas. Izd.2., perer. Moskva, Metallurgija, 1964. 219 p.  
[Data for the atlas "Metallurgical furnaces"] K atlasu  
"Metallurgicheskie pechi." 45 p. (V.I.1 17:9)

L-13526-65      SNG(1)/SNG(2)/SNT(1)/EDH(4)/EDO/EMP(t)/SND(b)      PT-4/Ps-4      JD/  
ACCESSION NR: AP4011207      MM/MR      6/0136/04/000/001/0047/0054

AUTHOR: Vlasovitch, V. I.; Astanin, V. V.; Chernomordin, I. F.; Vol'fson,  
G. Ye.; Lazarev, G. I.; Valerian, A. L.

TITLE: Conditions for obtaining high-purity aluminum by zone refining

SOURCE: Tsvetnoye metallo, no. 1, 1964, 47-54

TOPIC TAGS: aluminum, aluminum refining, zone refining, high purity aluminum,  
aluminum zone refining

ABSTRACT: Experiments were conducted on four grades of aluminum: AB000 (0.00%  
Fe; 0.002% Si; 0.005% Cu - total impurities < 0.01%); AB0000 (0.001% Fe;  
0.001% Si; 0.001% Cu - total impurities < 0.004%); intermediate-purity aluminum  
(0.0016-0.0022% Fe; 0.0013-0.0014% Si; 0.0006-0.0008% Cu); and aluminum purified  
by the subfluoride distillation method. Impurity content was determined by  
spectral analysis, and overall estimation of purity by measurement of the residual  
electrical resistance of the aluminum at the temperature of liquid helium. It was  
found that high-purity aluminum can be obtained by zone refining, and that resis-  
tance heating is better than induction heating when working with graphite boats

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L 13325-45

ACCESSION NR: A4011287

and in vacuum. Vacuum degassing of the aluminum lowers the Mg content while reducing the effectiveness of zone refining. Aluminum with a lower content of impurities from the transition metals of the IVA, Va, and VIa groups was obtained by remelting the "dirty" ends of the test samples, with additional zone refining. Orig. art. has: 5 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM

NO. REP. SOW: 008

OTHER: 004

Card

2/2

KAZAKOV, Nikolay Fedotovich, doktor tekhn. nauk, prof.; KRAPUKHIN,  
V.V., red.

[Diffusion bonding in vacuum of metallic and nonmetallic  
materials] Diffuzionnaia svarka v vakuume metallicheskikh  
i nemetallicheskikh materialov. Leningrad, 1965. 31 p.  
(MIRA 18:7)

L 09109-67 EWT(m)/EWP(t)/ETI/EWP(k) IJP(c) JD

ACC NR: AP7002360

SOURCE CODE: UR/0363/66/002/007/1180/1185

KRAPUZHIN, V. V., TSOKOV, I. S., and MAMAYEV, Yu. O., Moscow Institute  
of Steel and Alloys (Moskovskiy institut stali i splavov) 23  
20

"Investigation of the Zone Recrystallization of Tellurium" 27  
14

Moscow, Izvestiya Akademii Nauk SSSR, Neorganicheskiye Materialy, Vol 2, No 7,  
1966, pp 1180-1185

ABSTRACT: The literature lacks adequate data on the choice of the optimal  
velocity of zone displacement and on the effective coefficients of distribution  
of most impurities, impeding the selection of the technological regime in the  
zone recrystallization of tellurium.

In the experimental setup tellurium was placed in a quartz boat 220 mm long  
and the boat was then placed in a quartz tube surrounded by encircling heating  
wire. The tube temperature was kept at 350° C, preventing condensation of  
tellurium on its wall and assuring good appearance of the specimen. Vapor  
pressure data for tellurium showed that at its melting point of 452° C, con-  
siderably volatility can be expected, especially in a vacuum.

Analysis before and after the experiment was made by spectral analysis, af-  
fording determination of impurities with a sensitivity -- for copper and silver --  
of  $5.5 \cdot 10^{-5}$  wt %, and for tin, arsenic, antimony, lead, iron, silicon, and  
magnesium --  $10^{-4}$  wt %.

Constitution diagrams of impurity element versus tellurium showed no lines

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0925

0660

L 09109-67

ACC NR: AP7002360

of solubility in the solid state, which did not afford a determination of the distribution coefficient in advance.

The high efficiency of the process of zone recrystallization of tellurium for removal of copper and silver was demonstrated.

Values of equilibrium distribution coefficients for copper and silver in tellurium were found to be  $9.5 \cdot 10^{-3}$  and  $2.2 \cdot 10^{-2}$  respectively.

At a zone advance rate of  $v=3$  cm/hr and ten passes, the purification of tellurium from lead was marked.

Purification of tellurium from iron, bismuth, and silicon was attained only upon the use of electromagnetic mixing of the melt in the zone with the passage through the front of direct current of  $20$  a/cm<sup>2</sup> density. The analyses were carried out under the direction of N. M. Konyshova. Orig. art. has: 3 figures and 4 tables.  
[JPRS: 37,871]

TOPIC TAGS: metal recrystallization, tellurium

SUB CODE: 11 / SUBM DATE: 27Sep65 / ORIG REF: 006 / OTH REF: 006

Card 2/2 net

KRAPUKHINA, YE P  
KRAPUKHINA, YE. P.

Krapukhina, Ye. P. "Pneumoconiosis among electrowelders (clinical-roentgenological investigation)." Acad Med Sci USSR. Inst of Labor Hygiene and Occupational Diseases, Acad Med Sci USSR. Moscow, 1956. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow. Pages 24-25; illus.

KRAPUKHINA, Ye.P., aspirant

Pneumoconioses in welders. Gig. i san. 21 no.8:29-34 Ag '56.  
(MLRA 9:11)

1. Iz rentgenologicheskogo otdeleniya Instituta gigiyeny truda i  
professional'nykh zabolеваний AMN SSSR.

(PNEUMONODIOSES  
in welders)  
(OCCUPATIONAL DISEASES  
pneumoconioses in welders)

MOLOKANOV, K.P.; MOROZOV, A.L.; RASHEVSKAYA, A.M.; KRUPUKHINA, Ye.P.;  
ORLOVA, A.A.; STEPANOVA, V.I.; SHALYA, N.G.

Clinical, diagnostic, and therapeutic aspects of berylliosis.  
Sov.med. 25 no.4:22-30 Ap '61. (MIRA 14:6)

1. Ig Instituta gigiyeny truda i profzabolenvaniy (dir. - deystvitel'nyy  
chlen AMN SSSR A.A.Letavet) AMN SSSR.  
(BERYLLIUM—TOXICOLOGY)

MOLOKANOV, K.P., prof. (Moskva, D-284, ul.Begovaya,d.11,kv.175); KRAPUKHINA,  
Ye.P., kand.med.nauk  
Diagnostic value of enlarged roentgenograms. Vest. rent. i rad.  
36 no. 2:21-25 Mr-Ap '61. (MIRA 14:4)

1. Iz Instituta gigiyeny truda i profzabolevaniy AMN SSSR (dir. -  
deystvitel'nyy chlen AMN SSSR prof. A.A. Letavet).  
(DIAGNOSIS, RADIOSCOPIC)

KRAPUKHINA, Ye.P.; KOCHETKOVA, T.A.; ORLOVA, A.A. (Moskva)

Clinical aspects of pneumosclerosis of mixed etiology (berylliosis and silicosis). Gig. truda i prof. zab. 7 no.1:41-44  
(MIRA 16:12)  
Ja'63

1. Institut gigiyeny truda i professional'nykh zabolеваний  
AMN SSSR.

ZERTSALOVA, V.I.; KRAPUKHINA Ye.P. (Moskva)

Occupational pathology of the lungs in workers of the milling industry. Gig. truda i prof. zab. 7 no.3:43-45 Mr'63  
(MIRA 17:1)

l. Institut gigiyeny truda i professional'nykh zabelevaniy  
AN SSSR.

1. ASLANOV, G. V.; GET'YE, V. A.; GUREVICH, YE. S.; LUBENETS, V. D.; SAMSONOV, N. M.; SEKUNOVA, O. N.; SIMONOVSKIY, I. V.; FRENKET', M.; KERAPUNOV, B. P.
2. USSR (600)
4. Valves
7. Problem of the priority of Soviet science in examining the operation of spring-loaded valves. (Letters to the editor.) Vest. mash. 32 No. 11, 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

KRISTAL, I.Ya; KRAPUNOVICH, B.L.

Multiple stomach perforations in cancer of the pancreas.  
Zdrav. Bel. 9 no.1:83 J'63. (MIRA 16:8)

1. Iz khirurgicheskogo otdeleniya (zav. I.Ya. Kristal) Po-  
lotskoy bol'nitsy (glavnnyy vrach Ye.M.Polygalina)  
(PANCREAS--CANCER) (STOMACH—ULCERS)

AKHIEZER, G.

"The element Californium 254 and supernovae."

[P. M. (J. Černá Voda) 19, Vol. 4, No. 6, June 1957, Bratislava, Czechoslovakia]

Monthly Index of East European Acquisitions (M.I.E.A.), Vol. 1, No. 4, September 1953.

KRAS, M.

Automobile service as a marginal trade of the local industries.  
Motor 11 no.49:11 9 D '62.

KRAS, Mieczyslaw

The driver is a human being, too. Motor 12 no.1:3 6 Ja '63.

KRAS, Mieczyslaw

How to enforce the principles of the statute on road traffic?  
Interview with Witold Rychter, codrafter of the statute. Motor  
11 no.48:11, 15 2 D '62.

KRAS, MECHISLAV (Varshava)

Development of the motor-vehicle industry in Poland. Za rul.  
19 no. 30-29-30 0 '61. (MIRA 14:11)

(Poland--Automobile industry)  
(Poland--Motortrucks)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826030005-7

KRAS', P.B. (Odessa)

Club in the courtyard. Zdorov'e 4 no.8:13 Ag '58 (MIRA 11:7)  
(CHILDREN'S CLUBS)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826030005-7"

KRASA, Miloslav

Oriental studies and life. *Vestnik CSAV* 71 no.1:110-113 '62.

BALCIKONYTE, S.; GLINSKIENE, V.; KRASAUSKAS, V.; KURTINYTE, G.;  
STUKONIS, M.

Experience with combined preventive examinations for the  
population. Sveik. apsaug. 8 no.5:38-43 '63.

1. Kupiskio rajono ligonine. Vyr. gyd. - G. Kurtinyte. LTSR  
Onkologijos m. t. institutas. Direktorius - med. m. kand.  
A. Telycenas.  
(PREVENTIVE MEDICINE) (HEALTH SURVEYS)

KRASAVCHENKO, M. I.

21 Oct 52

USSR/Chemistry - Pharmaceuticals, Solvents

"A Preparative Method of Obtaining Hydroxyethylmorpholine, "S. R. Sergiyenko, Yu. A. Redov, M. I. Krasavchenko

"Dok Akad SSSR" Vol 86, No 6, pp 1129-1131

The method of O. Famm and J. Waldo for the prepn of morpholine derivs by the condensation of 2,2'-dichlorodiethyl ether with primary amines in the presence of alkali, is modified. Three moles of monoethanamine react with one mole of 2,2'-dichlorodiethyl ether to produce the oxyethylmorpholine and 2 moles of monoethanolamine hydrochloride, which crystallize only 3-4 hrs later. This permits the immediate distn of the reaction mixt. The method is thus based on cheap, commercially available materials. The yield is 50-65%. Presented by Acad A. V. Togchiyev 21 Aug 52.

PA 234T28

SERGIYENKO, S.R.; KRASAVCHENKO, M.I.; PUSTIL'NIKOVA, S.D.

Influence of the temperature on the prolongness of heating and  
the depth of conversion of the residual products of Romashkino  
petroleum. Report No.1. Trudy inst. nefti. 10:188-210 '57.  
(MIRA 11:4)

(Romashkino region--Petroleum--Analysis)  
(Distillation, Fractional)

KRASAVCHENKO, M.I.  
SERGIYENKO, S.R.; KRASAVCHENKO, M.I.

Effect of the chemical nature of petroleum and the concentration of resinous asphalt substances in the products on the character of their chemical conversions. Report No.2. Trudy inst. nefti 10:211-233 '57.  
(MIRA 11:4)

(Petroleum) (Distillation, Fractional)  
(Asphalt)

SERGIYENKO, S.R.; KORCHAGINA, V.I.; GALICH, P.N.; RUTMAN, L.I.; DAVYDOV, B.E.;  
KRASAVCHENKO, M.I.

Effect of the depth of sampling on the composition and properties of  
heavy residual stock. Article No.23. Trudy Inst.nefti 12:175-186  
'58. (MIRA 12:3)  
(Petroleum products--Analysis)

SERGIYENKO, S.R.; KORCHAGINA, V.I.; GALICH, P.N.; RUTMAN, L.I.; DAVYDOV, B.E.;  
KRASAVCHENKO, M.I.

Effect of the nature of feed stock and the duration of oxidation on  
the composition and properties of oxidized bitumens. Article No.24.  
Trudy Inst.nefti 12:187-199 '58. (MIRA 12:3)  
(Bitumen) (Petroleum--Refining)

SERGIYENKO, S.R.; KRASAVCHENKO, M.I.; TETERINA, M.P.

Conversions of the high molecular weight aromatic compounds of  
Romashkino oil at 300-350°. Trudy Inst.nefti 13:97-110 '59.  
(MIRA 13:12)  
(Hydrocarbons)

S/165/60/000/002/001/008  
A104/A129

AUTHORS:

Sergiyenko, S.R., Krasavchenko, M.I., Delone, I.O., and  
Rutman, L.I.

TITLE:

The effect of the separation depth of distillate fractions  
on the composition and properties of hydrocarbons of heavy  
residues

PERIODICAL:

Akademiya nauk Turkmenской SSR. Izvestiya. Seriya fiziko-  
tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no.2,  
1960, 13-20

TEXT:

This article is a continuation of two articles published in  
1 and 2) and describes investigations into changes of oil products at varying processing stages. Products of the composition of  
derived from heavy and light Il'skiy petroleum; their composition and properties were described in Refs. 1 and 2. The hydrocarbon portion of the  
products was separated by adsorption (Ref. 3, Sergiyenko, S.R., etc: Trudy  
Instituta nefti, 1954, IV, 103). The chemical nature of the separated

Card 1/3

S/165/60/000/002/001/008  
A104/A129

The effect of the separation depth ...

hydrocarbons and the effect of the separation depth of distillate fractions, cracking degree and degree of oxidation on them was determined by chromatographic analysis. (Refs. 4 and 5, Sergiyenko, S.R., DAN SSR, 1953, no. 1, and Trudy Instituta nefti, 1954, IV, 103). The analysis was carried out in an adsorption 40x17 cm column filled with 200 ml of activated porous silica gel; 150 ml of the hexane fraction containing no benzene passed through the column at 60-80°C followed by 10 g of test fraction diluted with the same solvent in the ratio of 1:3. Desorption of hydrocarbons is carried out with the help of the solvent in the following order: 200 ml hexane fraction, 100 ml benzene, 100 ml dehydrated alcohol-benzene mixture and 100 ml of the same mixture with non-dehydrated alcohol. The solvent is distilled on a water bath in nitrogen current; filled tubes were brought to constant weight and the refractive index of the residues was determined. Refractive index limits of different groups were based on information of Ref. 6, Clerc, R.J. and Kincannon, C.V., Analytical chemistry, and T.P.Wier, Jr., 1950, vol. 22, no. 7. With the raise of cracking depth and the parallel reduction of hydrocarbons in the cracking residues the amount of asphaltenes, carbones and carboids increased. The transformation process of the hydrocarbon portion in-

Card 2/3

The effect of the separation depth ...

S/165/60/000/002/001/008  
A104/A129

to asphaltene substance is assumed to be as follows: monocyclic aromatic hydrocarbons - condensed aromatic hydrocarbons - tar-asphaltene substances. The heavy Il'skiy petroleum contains 18.5% of hydrocarbons of which 50% are paraffinic cycloparaffinic hydrocarbons. There are 8 tables and 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Institut geologii i razrabotki goryuchikh iskopayemykh Akademii Nauk SSSR (Institute of Geology and Processing of Combustible Minerals of the Academy of Sciences of the USSR) and Odesskiy neftopererabatyvayushchiy zavod (Odessa Oil Refinery)

SUBMITTED: September 29, 1959

Card 3/3

KRASAVIN, A.

It's time to change the out-of-date system of wages. Sots. trud.  
no.6:128-129 Je '58. (MIRA 11:6)

1. Nachal'nik planovo-ekonomiceskogo otdela Priozerskogo tsellyuloznnogo zavoda.  
(Lumbering) (Wages)

KRASAVIN, A.P., gornyy inzhener

Experimental use of spread charges with air space in underground  
ore breaking at the Zlatoustovskiy Mine. Vzryv. delo no. 45:  
85-90 '60. (MIRA 14:1)

(Zlatoustovskiy—Blasting)

KRASAVIN, A.P., inzh.; POPOV, N.N., inzh.

New system for thin bed mining. Bezop.truda v prom. 5 no.3:11-12  
Mr '61. (MIRA 14:3)

1. Chelyabinskiy nauchno-issledovatel'skiy institut gornogo dela.  
(Mining engineering)

KRASAVIN, Aleksandr Pavlovich; POPOV, Nikolay Nikolayevich;  
BOGUSLAVSKIY, Emil' Iosifovich. Prinimali uchastiye:  
TISHCHENKO, V.I.; KLYKOV, M.V.; YEROKHIN, G.M., red.  
izd-va; LAVRENT'YEVA, L.G., tekhn. red.

[Mine worker] Zaboiashchik na rudnikakh. Moskva, Gosgor-  
tekhizdat, 1963. 150 p. (MIRA 16:8)  
(Mining engineering)

KOGOBTSOV, S.Ya.; SAUTOV, V.M.; KRAMAVEN, A.V.

Packing the molds under high pressure. Lit. proizv. no.3:34-  
35 Mr '64. (NRA 18:9)

KOSOVITSEV, S.Ya.; KRASAVIN, A.V.

Substitutes for nonferrous alloys in thrust bearing cages. Lit.promiz.  
no.7:39 Jl 164. (MIR 18:4)

KOSOVTSEV, S.Ya.; KRASAVIN, A.V.

Increasing the life of shot-blasting machine parts. Lit. proizv.  
no.12:39 D '64. (MIRA 18:3)

NEDOSEKIN, I.I.; KOSOVTSEV, S.Ya.; KRASAVIN, A.V.

Investigating the graphitization of IWS Ch13 steel. Lit. precizv.  
no.744-46 Jl '64. (MIRA 18:4)

KRASAVIN, B.G., inzh.

Long-span conveyer ways constructed with prestressed reinforced concrete components. Nov. tekhn. i pered. op. v stroi. 19 no.9:  
24-25 S '57. (MIRA 10:11)

(Leningrad--Concrete plants)  
(Prestressed concrete construction)

KRASAVIN, D. P.

On the classification and conventional terminology for engineering equipment. Stroi. i dor. mashinostr. no.2:23-24 F '57.  
(MLRA 10:3)  
(Engineering-Terminology)

KIRICHENKO, Vasiliy Stepanovich, inzh.; FEYGEL'SON, B.Yu., kand.tekhn.  
nauk, ratsenzent; SUDAKIN, Ya.A., red.inzh.; pri uchastii:  
PORVATOV, N.A., inzh.; KRASAVIN, D.P., inzh.; KOROBETNIKOV, M.M.,  
inzh.; ROGOZHIN, P.I., inzh.; YEVDOKOMOV, F.N., inzh.; STUPIN,  
A.N., inzh.; ZVIAGIN, A.V., inzh.; SIROTIN, A.M., red.izd-va,  
inzh., EL'KIND, V.D., tekhn.red.

[Water-cooled chill molds] Vodoohlazhdemye kekili. Moskva, Gos.  
nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958. 95 p. (MIRA 11:12)  
(Molding (Founding))

KRASAVIN, D.P.

Classification of machinery-industry production. Standartizatsija  
27 no.4 21.23 Ap '63. (MIRA 16:4)  
(Machinery industry)

KRASAVIN, D.P., inzh.

Principal ways of reducing significantly the expenditure of  
metal in construction and road equipment. Stroi. i dor.mash. 9  
no.10:10-12 0 '64. (MIRA 18:1)

KRASAVIN, G. A.

AGOSHKOV, M.I.; BRONNIKOV, D.M., kandidat tekhnicheskikh nauk; KRASAVIN,  
G.A., gornyy inzhener.

Testing data on boring rigs having sinking perforators. Gor. zhur.  
(MILIA 9:8)  
no.5:17-22 My '56.

1. Chlen-korrespondent AN SSSR (for Agoshkov); 2. Institut gorno-  
go dela AN SSSR.  
(Rock drills)

SOV/118-58-2-6/19

AUTHORS: Agoshkov, M.I., Corresponding Member of AS USSR, Bronnikov, D.M., Candidate of Technical Sciences and Krasavin, G.A., Engineer

TITLE: Drilling Units with Sinking Percussion Drills (Burovyye agregaty s pogruzhnymi molotkami)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 2, pp 17-18 (USSR)

ABSTRACT: The drilling of deep bore holes for the breaking of hard ores involves a large expenditure of time and money. To find the most efficient means of drilling the following rigs with sinking pneumatic drills were tested under similar conditions at different mines: BA-1COM, constructed by the West Siberian Branch of the AS USSR and Kuznetskiy metallurgicheskiy kombinat (the Kuznetsk Metallurgical Trust); BES-2M constructed by the Krivorozhskiy nauchno-issledovatel'skiy gornorudnyy institut (the Krivoy Rog Scientific Research Mining Institute) and produced by the plant "Komunist"; BMK-2b - constructed by the Kyshtymskiy mekhanicheskiy zavod

Card 1/2

Drilling Units with Sinking Percussion Drills

SOV/118-58-2-6/19

(the Kyshtym Mechanical Plant) and PEK-1 constructed by the Institut gornogo dela AN Kazakhskoy SSR (the Institute of Mining Engineering of the AS of the Kazakhskaya SSR) and Leninogorskij kombinat (the Leninogorsk Trust). The results of the tests are shown in tables 1 and 2. These tests showed the superiority of the BA-100M drilling units, explained by the relatively low weight of its percussion drill (13 kg), its force of impact (7.5 kg) and the high frequency of impacts (1900 a minute). These tests showed that the drilling speed in one time-unit is directly proportional to the number of impacts (Figure 2 and Table 3). Moreover, as the BA-100M unit at the same time flushes the bore hole with water, it creates better working conditions. Finally all auxiliary operations connected with the operation of this unit took much less time than with other tested drilling units (Figure 3). The authors recommend perfecting and stepping up the production of the BA-100M drilling units. Reduction of the diameter of the drill and of the bit as well as a further increase in the frequency of drill strokes is also recommended. There are 3 tables, 2 graphs and 1 photo.

1. Drilling machines--Operation    2. Drilling machines--Test results

Card 2/2

Krasavin, G.A.

PLATE I BOOK EXPLOITATION 307/1984

Academy sain Sovn. Institute spravo dokl.

Naukove problemy vlastivin i perebrobi metodom polimernykh  
taksonoyuzhnykh (dokl.) Problemy v Development and Exploiting  
Mineral Deposits Moscow Izd-vo Akad. Nauk SSSR 1959. 133 p. 3,000  
copies printed. Arrows and inserted.

Ref. No.: N.V. Melnikov, Corresponding Member, USSR Academy of  
Sciences; Ed. Publishing House: N.I. Vasil'yev, Tech. Ed.  
P.J. Kakhnina.

Report: This book is intended for coal and ore mining engineers.  
Contents: The collection of articles report on the results of scientific  
studies conducted by members of the Institute of Mining In-  
cluding the AS SSSR on problems of developing and exploiting  
mines of the AS SSSR on problems of developing and exploiting  
coal and one deposit. The book is divided into two parts:  
Part I discusses the development and exploitation of coal deposits,  
Part II discusses the development and surface exploitation methods.  
Trends in developing underground and surface exploitation methods  
are described. Principles supplied in selecting exploitation  
the scientific bases and principles supplied in selecting exploitation  
methods for different natural conditions. The determination  
of the basic elements in the use of modern mechanized equipment  
in underground development, and the preparation and exploitation  
of coal. Part II is dedicated to problems in the mining and mining methods  
of exploitation of ore deposits, the drawing and mining methods  
used in underground exploitation of deposits in the area or the  
area (Berk Magnetic Anomaly) in open pit mining method used in  
exploiting the rich iron ore areas. The determination of size of open  
and further ore dressing. The book is dedicated to Academician  
and Honorary Shchukin, mining engineer. The articles are  
accompanying by diagrams, tables and bibliographic references.

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Card 6/7

AGOSHKOV, M.I.; BRONNIKOV, D.M.; KOVAZHENKOV, A.V. [deceased]; NIKANOROV,  
V.I.; MOCHALIN, M.P.; VORONYUK, A.S.. Prinimali uchastiye: KRASA-  
VIN, G.A.; GAGULIN, M.V.; BARSUKOV, F.A.. TERPOGOSOV, Z.A., kand.  
tekhn.nauk, otv.red.; NIKOLAYEVA, I.N., red.izd-va; DOROKHINA,  
I.N., tekhn.red.

[Investigating the main technological processes of underground  
mining of thick hard ore deposits] Issledovanie osnovnykh  
tekhnologicheskikh protsessov pri podzemnoi razrabotke moshchnykh  
mestorozhdenii krepkikh rud. Moskva, Izd-vo Akad.nauk SSSR, 1959.  
(MIRA 13:2)  
359 p.

1. Chlen-korrespondent AN SSSR (for Agoshkov).  
(Mining engineering) (Ore dressing)

KULICHIKHIN, N.I.; BRONNIKOV, D.M.; RODIONOV, N.S.; KRASAVIN, G.A.

Using high-speed motion picture photography in studying the  
impact action on rocks. Izv. vys. ucheb. zav.; geol. i razv.  
(MIRA 14:6)  
4 no.4:128-129 Ap '61.

1. Moskovskiy geologoazvedochnyy institut imeni S. Ordzhonikidze.  
(Rock drill)  
(Motion picture in mining)

AGOSHKOV, M.I.; BRONNIKOV, D.M., doktor tekhn. nauk; GAGULIN, M.V.,  
kand. tekhn. nauk; ZAMESOV, N.F., inzh.; KRASAVIN, G.A., inzh.

Principles for the methodology of breaking hard gres with  
borehole and coyote charges. Nauch. soob. IGD 15:3-14 '62.  
(MIRA 17:2)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

AGOSHKOV, M.I.; BUD'KO, A.V.; ARUTYUNOV, K.G.; BOGDANOV, G.I.;  
KRIVENKOV, N.A.; Prinimali uchastiye; ZAMESOV, N.A.;  
GAGULIN, M.V.; KRASAVIN, G.A.; VORONYUK, A.S.;  
KOSTAN'YAN, A.Ya., red.izd-va; ASRAF'YEVA, G.A., tekhn.  
red.; SIMKINA, G.S., tekhn. red.

[Analysis of the development systems of mines in the Krivoy  
Rog Basin] Analiz sistem razrabotki rudnikov Krivorozhskogo  
basseina. Moskva, Izd-vo AN SSSR, 1963. 184 p.

(MIRA 17:3)

1. Chlen-korrespondent AN SSSR (for Agoshkov).

DZIOMKO, V.M.; KRASAVIN, I.A.

8-(p-Toluenesulfonylamino)-quinoline (8-p-tosylaminquinoline).  
Metod.poluch.khim.reak.i prepar. no.4/5:67-69 '62. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobo chistykh khimicheskikh veshchestv.

KRASAVIN, I.A.; DZIOMKO, V.M.

8-(benzenesulfonylamino)quinoline. Metod.poluch.khim.reak.i prepar.  
no.4/5:69-71 '62. (MIRA 17:4)

1. V soyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobu chistykh khimicheskikh veshchestv.

KRASAVIN, I.A.; PARUSNIKOV, B.V.; DZIOMKO, V.M.

8-hydrazinoquinoline and its hydrochloride. Metod. poluch.khim.reak.  
i prepar. no.7:5~8 '63. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobu chistykh khimicheskikh veshchestv.

DZIOMKO, V.M.; KRASAVIN, I.A.; RADIN, Yu.P.

8-Acetoxyquinaldine. Metod.poluch.khim.reak. i prepar. no.7:  
8-10 '63. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobu chistykh khimicheskikh veshchestv.

MALOLETKOV, Ye.K., inzh.; KRASAVIN, I.A., inzh.; DOBIVKOVA, Ye.M.,  
tekhnik

[Method of estimating the operational qualities of single-  
bucket construction excavators while designing them] Meto-  
dika otseñki ekspluatatsionnykh kachestv odnokovshovykh  
stroitel'nykh ekskavatorov pri proektirovanií. Moskva, Gos-  
stroizdat, 1964. 36 p. (MIRA 17:7)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii,  
mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva.

DZIOMKO, V.M.; KRASAVIN, I.A.

Synthesis of pyrazole derivatives containing bidentate  
complex-forming groups. Trudy IREA no.25:41-46 '63.  
(MIRA 18:6)

KRASAVIN I. V.

123-1-983-D

Translation from: Referativnyy Zhurnal, Mashinostroyeniye, 1957,  
Nr 1, p. 147 (USSR)

AUTHOR: Krasavin, I. V.

TITLE: Study of Friction in Spring Suspension of Locomotives  
Depending on Their Design (Issledovaniye treniya v  
ressornom podveshivaniyu lokomotivov v zavisimosti ot  
konstruktsii yego)

ABSTRACT: Bibliographic entry on the author's dissertation for  
the degree of Candidate of Technical Sciences, presented  
to the Leningrad Institute of Railroad Engineering  
(Leningr. in-t inzh. zh.-d. transp.) Leningrad, 1956

ASSOCIATION: Leningrad Institute of Railroad Engineering (Leningr.  
in-t inzh. zh.-d. transp.)

Card 1/1

KRASAVIN, I.V., inszh.

Friction in the spring suspension of locomotives. Trudy RIIZHE  
no.24:182-199 '58.  
(Locomotives) (MIRA 11:9)

KRASAVIN, L.M.

DECEASED

1961/I

c 1960

SEE ILC

WEIGHTS AND MEASURES

KRASAVIN, M.D.

VOLOCHNEV, V.A., mashinist; PAVLOV, F.T., byvshiy brigadir slesarey, pensioner; SHCHIPITSYN, F.G.; POLULEKH, V.K.; KRASAVIN, M.D.

Stages in the great path. Klek. i tepl. tiaga no.11:38-40 N '57.  
(MIRA 10:11)

1. Elektrovoznoye depo Zlatoust, Yuzhnny Ural. 2. Nachal'nik elektrovoznoye depo Zlatoust, Yuzhnny Ural (for Polulekh). 3. Glavnyy inzhener elektrovoznoye depo Zlatoust, Yuzhnny Ural (for Krasavin).  
4. Sekretar' partbyuro elektrovoznoye depo Zlatoust, Yuzhnny Ural.  
(for Shchipitsyn).

(Zlatoust--Locomotives--Maintenance and repair)  
(Russia--Revolution, 1917-1921)

BELYAYEV, Yu.N.; TRIGUBENKO, M.Ye.. KRASAVIN, M.V., red.; GHRASIMOVA,  
Ye.S., tekhn.red.; PONOMAREVA, A.A., tekhn.red.

[Development of the economy and culture of the Korean People's  
Democratic Republic in 1946-1957; statistical collection] Raz-  
vitie narodnogo khoziaistva i kul'tury Kor'eiskoi Narodno-De-  
mokraticeskoi Respubliki v 1946-1957 gg.; statisticheskii sbornik.  
Moskva, Gosplanizdat, 1959. 90 p. (MIRA 13:1)  
(Korea--Statistics)

GRUZINOV, V.P.; VEKSHIN, G.K.; KRASAVIN, M.V., red.; PONOMAREVA, A.A.,  
tekhn.red.; GERASIMOVA, Ye.S., tekhn.red.

[Development of the national economy of Czechoslovakia;  
statistical collection] Razvitiye narodnogo khoziaistva  
Chekhoslovakii; statisticheskii sbornik. Moskva, Gosplan-  
izdat, 1959. 243 p.  
(Czechoslovakia--Statistics)

KRASAVIN, Nikolay Nikolayevich; NOVIKOV, A., redaktor; LIL'YE, A.,  
tekhnicheskiy redaktor

[Machine-tractor stations and collective farm production; some  
problems in practical economics] MTS i kolkhoznoe proizvodstvo;  
nekotorye voprosy konkretnoi ekonomiki. [Moskva] Moskovskii  
rabochii, 1956. 50 p.  
(Machine-tractor stations) (Collective farms)

KRASAVIN, Nikolay Nikolayevich; KUDRYAVTSEV, S.P., red.

[Labor productivity on collective farms and ways of increasing  
it] Proizvoditel'nost' truda v kolkhozakh i puti ee povysheniia.  
Moskva, Izd-vo VPSh i AON pri TsK KPSS, 1960. 66 p.

(MIRA 14:2)

(Collective farms--Labor productivity)

KRASAVIN, Nikolay Nikolayevich; KHOLOD, S., red.; TROYANOVSKAYA, N.,  
tekhn. red.

[How to increase labor productivity on a farm] Kak povysit'  
proizvoditel'nost' truda v khoziaistve. Moskva, Gos. izd-vo  
(MIRA 15:3)  
polit. lit-ry, 1961. 62 p.

1. Predvoditel' Bysshey partynoy shkoly pri TSentral'nom  
Komitete Kommunisticheskoy Partii Sovetskogo Soyuza (for  
Krasavin).  
(Agriculture—Labor productivity)

KRASAVIN, Nikolay Nikolayevich; ZAVERNYAYEVA, L.V., ed.; GERASIMOVA,  
Ye.S., tekhn. red.

[Ways to improve the economic efficiency of the use of land  
in agriculture] Puti povysheniia ekonomicheskoi effektivnosti  
ispol'zovaniia zemli v sel'skom khoziaistve. Moskva, Ekonom-  
izdat, 1962. 132 p. (MIRA 16:2)

(Agriculture)

ZHURIKOV, V.N.; IL'IN, M.A.; KRASAVIN, N.N.; PISKUNOV, V.T.;  
RUSINOV, I.V.; SUVOROVA, L.I.; TSIKOTO, I.A.;  
KONOVALOV, L., red.; MUKHIN, Yu., tekhn. red.

[Reader in agricultural economics] Kniga dlja chtenija po  
ekonomike sel'skogo khozaiistva. Moskva, Politizdat,  
1963. 287 p. (MIRA 17:1)

KRASAVIN, O.

Out of the darkness. Tekh.mol. 29 no.11:34-36 '61. (MIRA 14:11)

1. Chlen literaturnogo ob'yedineniya zhurnala "Tekhnika  
Molodezhi".  
(Blind, Apparatus for the)

KRASAVTSEV, O.A.

Fluorescence of the cells of woody plants in a frozen state.  
Fiziol. rast. 9 no.3:359-367 '62. (MIRA 15:11)

I. K.A.Timiriazev Institute of Plant Physiology U.S.S.R. Academy  
of Sciences, Moscow.  
(Fluorescence) (Plants, Effect of temperature on)

KRASAVIN, Sergey Anatol'yevich; YERMOLINSKIY, Ivan Aleksandrovich;  
BASOV, M.I., red.; PLESKU, Ye.P., red.izd-va; SHIBKVA, R.Ye.,  
tekhn. red.

[Analysis of the administrative operations of a logging enterprise]  
Analiz khoziaistvennoi deiatel'nosti lesopromkhoza. Mo-  
skva, Goslesbumizdat, 1962. 145 p. (MIRA 16:1)  
(Lumbering--Accounting)

KRASAVIN, V.

*Mark Shugars*

ZNANIE-SILA (Knowledge is Power), No. 10, October, 1954.

Atomic energy,  
By V. Krassavin .....

25

*Mark Shugars*

KRAPIVIN, I.N.; KRASAVIN, V.A.

Paper with reduced density is on its way. Bum. prom. 38 no.5:  
3-4 My '63. (MIRA 16:8)

1. Direktor Sukhonskogo kombinata (for Krapivin). 2. Glavnnyy  
inzh. Sukhonskogo kombinata (for Krasavin).  
(Paper industry)

POTAPOV, Mikhail Gennadiyevich, kand. tekhn. nauk; STAKHEVICH, Ye.B.,  
inzh., retsenzent; KRASAVIN, V.A., inzh., retsenzent;  
BYKHOVSKAYA, S.N., red. Izd-va; MAKSIMOVA, V.V., tekhn. red.

[Open-pit mine haulage] Kar'ernyi transport. Izd.2., perer. 1  
dop. Moskva, Gosgortekhizdat, 1963. 296 p. (MIRA 16:10)  
(Mine haulage)  
(Strip mining--Equipment and supplies)

SHIBOV, I.I.; KUDAVIN, V.A.; MIRONOV, A. \*

Activity of the heart in craniovertebral hypertension. Akademiya Nauk SSSR. Meditsinskii Institut. Tr. no. 3:67-91. Ryazan' 1974.

I. Kafedra fiziologii cheloveka i zhivotnykh Tarskievskogo patologicheskogo Instituta imeni Butinskogo.

L 26264-66 EWT(1) SCTB DD

ACC NR: AP6014085

SOURCE CODE: UR/0219/66/061/004/0124/0126

AUTHOR: Krasavin, V. A.

14

B

ORG: Department of Pathophysiology, Yaroslav Medical Institute (Kafedra patofiziologii Yaroslavskogo meditsinskogo instituta)

TITLE: A thermal assembly for artificial hypothermia with a predominant decrease in cerebral temperatureSOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 61, no. 4, 1966,  
124-126

TOPIC TAGS: hypothermia, cooling chamber, hypothermia equipment, cerebral hypothermia

ABSTRACT: More than 100 dogs were used to test an assembly on adjustable legs used to induce cerebral hypothermia with resultant whole-body hypothermia. A photograph shows an external view of the assembly consisting of an evaporator, compressor, condenser, ventilator, valve, cooling chamber, anesthetic device, and operating table. Liquid freon is used. From 10 to 15 min prior to cooling, a 12-21 mg/kg dose of sodium theopental is administered. The basic anesthesia is an intubated ether-oxygen mixture. The head of the animal is placed in the cooling chamber and temperature changes are monitored rectally and nasopharyngeally. The relationship between cerebral and rectal temperature is as follows:

Card 1/2

UDC: 616.838-085.832.9-78

L 26264-66

ACC NR: AP6014085

## Rectal      Cerebral

35—32C	33—27C
30—28	25—21
28—25	21—18

A reflector lamp is used for warming immediately after the operation. The warming process is terminated at a rectal temperature of 32C. Body temperature increases at a steady 0.5—0.7°/hr rate. Higher nervous activity normalizes after 3—8 days. The advantage of the well-tested system is that a relatively high rectal temperature can be maintained at a low cerebral temperature. The low cerebral temperature prevents hypoxia during surgery while the higher body temperature lessens the danger of cardiac fibrillation. Orig. art. has: 2 figures and 1 table. [CD]

SUB CODE: 06/ SUBM DATE: 06Nov64/ ORIG REF: 011/ OTH REF: 001/ ATD PRESS:  
4243

Card 2/2 CC

KRASAVIN, V. N.  
VSSR/Solid State Physics - Structural Crystallography

E-3

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 892  
Author : Krasavin, V.N., Yavorskiy, I.V.  
Inst. : ~~Ionization X-ray Apparatus.~~  
Title : ~~Ionization X-ray Apparatus.~~  
Orig Pub : Tr. Lennigr. tekhnol. in-ta im. Lensoveta, 1957, vyp. 37,  
98-106

Abstract : Description of a simplified construction of an ionization X-ray apparatus. The apparatus consists of an X-ray set URS-70 with a BSBI-CU tube, a spectrograph-goniometer, a proportional gas amplifier with an electrometric and dc amplifier with a power supply, and a mirror galvanometer with a photo-recording apparatus. The spectrograph-goniometer makes it possible to carry out automatic synchronous rotation of the specimen and of the counter with the aid of a SD-2 motor and reduction gear, and to measure the rotation of the specimen and of the counter with an

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accuracy of  $\pm 30'$ . The focusing of the reflected rays on the slit of the counter is by the Kurdyumov method. The proportional gas amplifier is filled with a mixture of Ar (320 mm mercury) and alcohol (20 mm mercury), the coefficient of gas amplification of the counter is 250. The electrometric dc amplifier is built around an electrometric petrode (1ELP), using the Bart circuit. The mirror galvanometer with photo-recording apparatus makes it possible to record continuously the intensity curve. The accuracy of the measurements of small intensities is 10 -- 11%, of larger intensities (100 pulses per second and more) is 5 -- 6%. The accuracy of angle measurement is 3 -- 5'.

Card 2/2

KRASAVIN, V.P.

Perm Province party organization in the campaign for the further development of the productive forces in the western Urals 1951-1955.  
Trudy Perm. farm. inst. no.1:24-52 '59. (MIRA 15:1)

1. Permskiy farmatsevticheskiy institut, kafedra marksizma-leninizma.  
(PERM PROVINCE\_\_COMMUNIST PARTY OF THE SOVIET UNION\_\_PARTY WORK)  
(PERM PROVINCE\_\_ECONOMIC CONDITIONS)

GONCHAROV, G.P.; KRASAVIN, V.P.; BETHKEV, A.B.

Improving a unit for thermal cracking. Nefteper. i neftekhim.  
no. 10:9-11 '64. (MIRA 17:12)

I. Chaskiy neftepererabatyvayushchiy zavod.

Без, мимо, Василий Степанович

ALEKIN, Lev Yemel'yanovich; GLADILIN, Anatoliy Nikolayevich; KRASAVIN,  
Vasiliy Stepanovich; LIJNEV, Fedor Andreyevich; MAKAROVA, Vera  
Ivanovna; RASTORGUYEV, Ivan Sergeyevich; KHRENOV, Aleksey Dmitriyevich;  
TSEYTLIN, V.Z., kandidat tekhnicheskikh nauk, redaktor;  
RZHAVINSKIY, V.V., inzhener; redaktor; SHUR, D.S., redaktor;  
EGGERT, A.P., tekhnicheskiy redaktor.

[General technology of metals] Obshchaya tekhnologiya metallov.  
Moskva, Vse.uchebno-pedagog.izd-vo Trudiservizdat, 1956. 327 p.  
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GLADILIN, Anatliy Nikolayevich, kandidat tekhnicheskikh nauk; DUBININ, Nikolay Petrovich, kandidat tekhnicheskikh nauk; ZHEVTUNOV, Petr Prokhorovich, kandidat tekhnicheskikh nauk; KRASAVIN, Vasiliy Stepanovich, kandidat tekhnicheskikh nauk; NAZAROV, Sergey Tikhonovich, kandidat tekhnicheskikh nauk; PANCHENKO, Konstantin Petrovich, kandidat tekhnicheskikh nauk; POPOV, Viktor Aleksandrovich, kandidat tekhnicheskikh nauk; POPOV, Yevgeniy Aleksandrovich, kandidat tekhnicheskikh nauk; RASTORGUYEV, Ivan Sergeyevich, kandidat tekhnicheskikh nauk; STOROZHEV, Mikhail Vasil'yevich, kandidat tekhnicheskikh nauk; KONSTANTINOV, L.S., kandidat tekhnicheskikh nauk, redaktor; ROZENBERG, G.A., kandidat tekhnicheskikh nauk, redaktor; MODEL', B.I., tekhnicheskiy redaktor

[Technology of metals] Tekhnologiya metallov. Pod red. N.P.Dubinina.  
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(MIR 9:8)  
1956. 550 p.

1. Prepodavateli Moskovskogo Vyschego tekhnicheskogo uchilishcha  
im. Baumana (for Gladilin, Dubinin, Zhevtunov, Krasavin, Nazarov,  
Panchenko, Popov, V.A., Popov, Ye.A., Rastorguyev, Storozhev)  
(Metallurgy) (Metalwork)

*ASILY S.*

DUBININ, Nikolay Petrovich, kandidat tekhnicheskikh nauk; ZHEVUNOV, Petr Prokhorovich, kandidat tekhnicheskikh nauk; STOROZHENOV, Mikhail Vasil'yevich, kandidat tekhnicheskikh nauk; POPOV, Yevgeniy Aleksandrovich; MAZKOV, Olegov Tikhonovich, kandidat tekhnicheskikh nauk; GLADILIN, Anatoliy Nikolaevich, kandidat tekhnicheskikh nauk; PANCHENKO, VASIL'YEVICH, Vasilii Stepanovich, kandidat tekhnicheskikh nauk; PANCHENKO, Konstantin Petrovich, kandidat tekhnicheskikh nauk; POPOV, Viktor Aleksandrovich, kandidat tekhnicheskikh nauk; KOSTOMAROV, Ivan Sergeevich, kandidat tekhnicheskikh nauk; SHENSHURINA, Ye.A., redaktor; UVALIOVA, A.S., tekhnicheskiy redaktor; MOLENT', B.I., tekhnicheskiy redaktor

[Technology of metals] Tekhnologiya metallov. Pod red. N.P.Dubinina.  
Izd. 3-e. Moskva, Gos. nauchno-tekhn. izd-vo mashino-stroit. lit-ry,  
1957. 564 p.  
(Metals) (Metallwerk)

PHASE I BOOK EXPLOITATION

1155

Dubinin, Nikolay Petrovich; Gladilin, Anatoliy Nikolayevich;  
Zhevtunov, Petr Prokhorovich; Krasavin, Vasiliy Stepanovich;  
Nazarov, Sergey Tikhonovich; Panchenko, Konstantin Petrovich;  
Popov, Viktor Aleksandrovich; Popov, Yevgeniy Aleksandrovich;  
Rastorguyev, Ivan Sergeyevich (Deceased); Storozhev, Mikhail  
Vasil'yevich

Tekhnologiya metallov (Technology of Metals) 3d ed., Moscow, Mashgiz,  
1958. 564 p. 25,001 copies printed.

Ed.: Dubinin, N.P., Candidate of Technical Sciences; Ed. of  
Publishing House: Shemshurina, Ye.A.; Tech. Eds: Uvarova, A.F.  
and Model', B.I.; Managing Ed. for Literature on Metal Working  
and Tool Making (Mashgiz): Beyzel'man, R.D., Engineer.

PURPOSE: This is a textbook for students taking courses in machine  
design and manufacture at vtuzes.

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Technology of Metals

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COVERAGE: The book contains data on the structure and properties of metals and alloys, on nonmetallic materials, on methods of forming metals and alloys (casting, forging, stamping), on methods of machining metals and working nonmetallic materials, and on all types of metal-processing equipment. Authorship of the book is as follows: Part I, N.P. Dubinin; Part II, P.P. Zhevtnov; Part III, N.P. Dubinin; Part IV, M.V. Storozhev and Ye.A. Popov; Part V, S.T. Nazarov; Part VI, K.P. Panchenko, V.S. Krasavin, and A.N. Gladilin; Part VII, I.S. Rastogruyev (deceased) and V.A. Popov. All authors are Candidates of Technical Sciences, with the possible exception of Ye.A. Popov.

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